b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

DATA SHEET

For research use only. Not for use in humans.

Reagent: CEM-GFP Cells

Catalog Number: ARP-3655

Lot Number: 190191

Provided: Each vial of ARP-3655 contains approximately 4.1 × 10^6 cells in 0.8 mL of freeze medium. Post-thaw viability was 83%.

Cell Type: ARP-3655 is a derivative of CEM cells, which are lymphoblasts isolated from the peripheral blood buffy coat collected from a female child with acute leukemia.

Propagation Medium: The recommended propagation medium is RPMI-1640 supplemented with 200 mM GlutaMAX™, 500 µg/mL G418 and 10% fetal bovine serum.

Freeze Medium: The recommended freeze medium is Gibco Recovery Cell Culture Freezing Medium.

Growth Characteristics: ARP-3655 cells grow in suspension. Split 1:10 weekly for routine maintenance.

Sterility: Tests for bacteria, fungi and mycoplasma were negative.

Description: CEM-GFP cells express green fluorescent protein (GFP) upon human immunodeficiency virus type 1 (HIV-1) infection driven by the HIV-1 NL4-3 long terminal repeat (LTR).

Special Characteristics: ARP-3655 is a neomycin-resistant indicator cell line. CEM-GFP cells can be used to monitor infection with HIV-1 (CXCR4, SI strains) and HIV-2. Productive infection will generate GFP.

Recommended Storage: Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.

Contributor: Dr. Jacques Corbeil

References: Gervaix, A., et al. "A New Reporter Cell Line to Monitor HIV Infection and Drug Susceptibility *in vitro*." Proc. Natl. Acad. Sci. USA 94 (1997): 4653-4658. PubMed: 9114046.

Citation: Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: CEM-GFP Cells, ARP-3655, contributed by Dr. Jacques Corbeil." Also include the reference cited in any publication.

Biosafety Level: 1 Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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HIV REAGENT PROGRAM

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